

# CU Physics Department Colloquium

Monday, March 10, 2008 4:15pm 428 Pupin

**Clifford Will**

**Washington University – Saint Louis**

## "The Confrontation between General Relativity and Experiment"

We review the experimental evidence for Einstein's general relativity. Tests of the Einstein Equivalence Principle support the postulates of curved spacetime, while solar-system experiments strongly confirm weak-field general relativity. We describe the status of the recently concluded Gravity Probe B experiment, and of observations of binary pulsar systems. Future tests of the theory in the radiative and strong-field regimes may be possible using gravitational-wave observatories on Earth and in space, and using observations of stars orbiting the central black hole in our galaxy.



**Hosted by Szabolcs Marka**

